

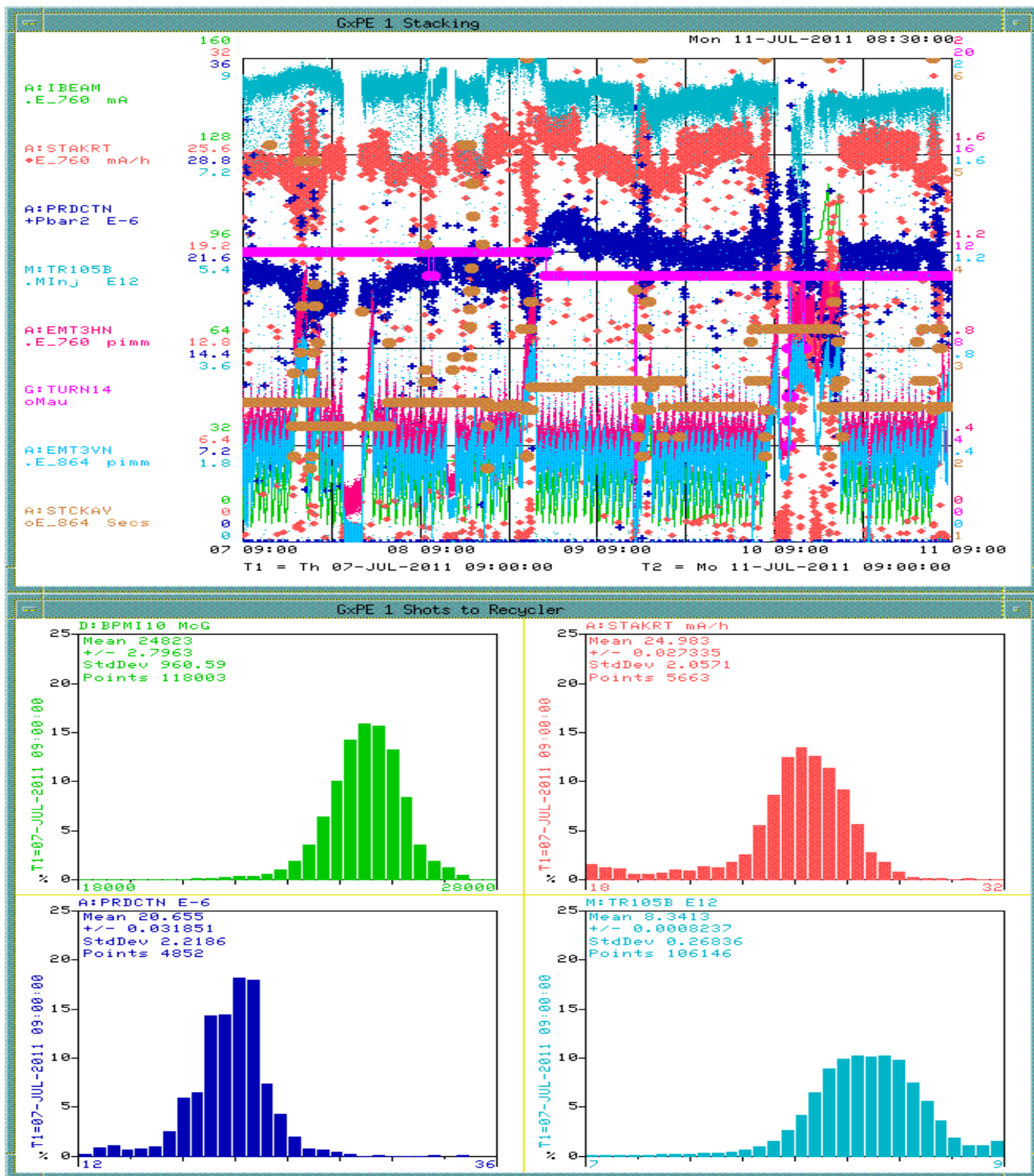
2011-07-11 Monday Morning Notes

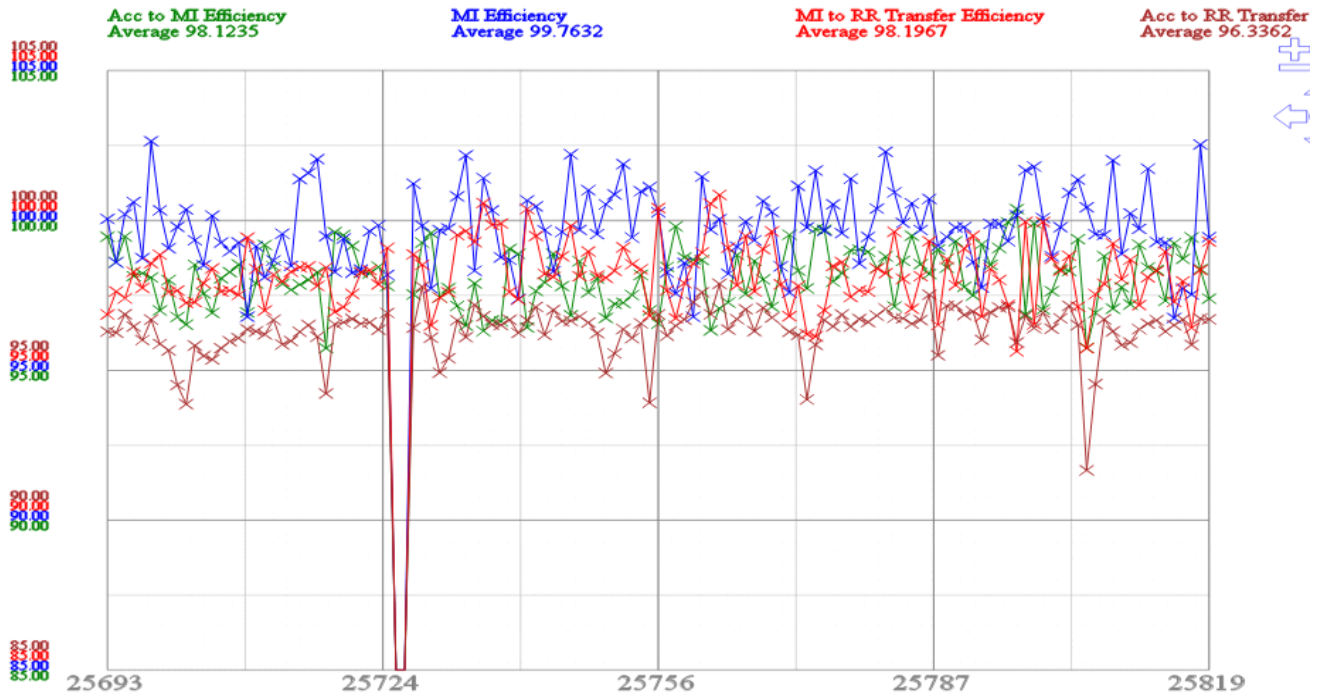
Monday, July 11, 2011
7:38 AM

Numbers

- Stacking
 - Pbars stacked: 2037.39 E10
 - Time stacking: 90.64 Hr
 - Average stacking rate: 22.48 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 129275
 - Number of pulses with beam: 114884
 - Fraction of up pulses was: 88.87%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 80.55 Hr
 - Possible average stacking rate: 25.29 E10/Hr
 - Could have stacked: 2292.61 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1991.88 E10
 - Number of transfers : 235
 - Number of transfer sets: 78
 - Average Number of transfer per set: 3.01
 - Time taken to shoot including reverse proton tuneup: 00.82 Hr
 - Transfer efficiency: 95.58%
- Other Info
 - Average POT : 8.34 E12
 - Average production: 21.27 pbars/E6 protons

Plots





Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R:BEA ME0[0]) pre after E10	Column 24 Number _23_R-B EAM (R:BEA ME0[1]) post after, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudi nal Emittance	
	Totals =>			2010.39			1923.89	95.70%	97.62%	97.53%	95.21%	236	77	4.8315	3.5953	2.0296	
	Daily Average =>			502.60			480.97					59	19				
25819	Monday, July 11, 2011	5:47	25.26	5.77	21.97	366.89	387.80	21.26	96.77%	97.25%	96.78%	94.11%	3	1	4.508	3.228	2.064
25818	Monday, July 11, 2011	4:51	25.64	5.85	22.28	346.84	368.08	21.58	96.84%	98.89%	99.86%	98.74%	3	1	4.21	3.381	2.066
25817	Monday, July 11, 2011	3:58	26.53	6.15	22.51	326.49	347.84	21.59	95.92%	99.01%	97.22%	96.26%	3	1	4.754	3.616	2.053
25816	Monday, July 11, 2011	3:05	26.73	6.14	22.67	305.66	327.36	21.95	96.83%	98.54%	96.95%	95.54%	3	1	4.895	3.589	2.056
25815	Monday, July 11, 2011	2:09	25.58	5.81	21.90	285.44	306.35	21.12	96.43%	98.44%	96.38%	94.88%	3	1	4.441	3.105	2.057
25814	Monday, July 11, 2011	1:20	29.48	7.13	24.85	262.37	286.01	23.88	96.12%	97.14%	96.95%	94.18%	3	1	4.824	3.487	2.077
25813	Monday, July 11, 2011	0:20	26.16	6.26	22.05	241.79	262.88	21.35	96.84%	98.09%	97.07%	95.22%	3	1	4.548	3.491	2.088
25812	Sunday, July 10, 2011	23:28	25.34	5.85	21.64	221.50	242.20	20.89	96.51%	98.57%	99.65%	98.22%	3	1	4.643	3.145	2.058
25811	Sunday, July 10, 2011	22:37	25.56	5.94	21.75	200.92	221.81	21.01	96.57%	98.83%	98.33%	97.18%	3	1	4.835	3.051	2.055
25810	Sunday, July 10, 2011	21:27	25.84	4.58	22.57	179.74	201.31	21.67	96.05%	97.30%	98.25%	95.60%	3	1	3.772	2.851	2.059
25809	Sunday, July 10, 2011	20:35	29.11	6.57	25.04	156.15	179.98	24.03	95.96%	97.66%	97.07%	94.80%	3	1	4.595	3.56	2.049
25808	Sunday, July 10, 2011	19:35	26.47	6.14	22.79	134.65	156.46	21.95	96.30%	97.40%	98.61%	96.05%	3	1	4.711	3.43	2.065
25807	Sunday, July 10, 2011	18:41	26.67	6.23	22.84	113.16	135.05	22.09	96.73%	98.95%	98.84%	97.80%	3	1	4.795	3.428	2.057
25806	Sunday, July 10, 2011	17:39	115.29	9.43	111.68	11.14	113.89	104.75	93.79%	96.53%	96.23%	92.88%	7	1	7.048	4.875	1.864
25805	Sunday, July 10, 2011	16:16	118.69	94.66	24.02	369.65	391.67	22.02	91.67%	95.75%	96.17%	92.08%	1	1	10.501	7.278	1.188
25804	Sunday, July 10, 2011	6:54	26.27	5.91	22.92	360.46	382.19	22.17	96.72%	99.24%	99.66%	98.90%	3	1	4.686	3.366	2.03
25803	Sunday, July 10, 2011	5:54	26.23	4.95	23.20	339.63	361.85	22.53	97.13%	98.34%	99.09%	97.44%	3	1	3.913	2.936	2.019
25802	Sunday, July 10, 2011	5:00	25.67	6.13	21.66	319.70	340.48	21.01	96.97%	98.45%	97.98%	96.46%	3	1	4.694	3.274	2.024
25801	Sunday, July 10, 2011	4:08	25.42	6.06	21.48	299.77	320.37	20.75	96.60%	97.65%	97.11%	94.83%	3	1	4.339	3.275	2.032
25800	Sunday, July 10, 2011	3:15	25.43	5.02	22.04	279.13	300.36	21.40	97.08%	98.05%	98.03%	96.12%	3	1	4.065	2.92	2.041
25799	Sunday, July 10, 2011	2:22	25.39	5.93	21.59	258.92	279.58	20.84	96.52%	99.34%	100.80%	100.13%	3	1	4.522	3.19	2.025
25798	Sunday, July 10, 2011	1:32	25.45	6.03	21.57	238.70	259.37	20.88	96.80%	97.01%	98.80%	95.85%	3	1	4.283	3.514	2.046
25797	Sunday, July 10, 2011	0:35	25.67	5.88	21.89	218.12	239.04	21.10	96.37%	99.58%	99.69%	99.27%	3	1	4.543	3.187	2.06
25796	Saturday, July 09, 2011	23:44	26.45	6.25	22.28	196.93	218.44	21.65	97.18%	99.95%	99.07%	99.02%	3	1	4.578	3.427	2.031
25795	Saturday, July 09, 2011	22:50	25.81	5.98	21.87	176.14	197.22	21.24	97.11%	99.41%	99.73%	99.15%	3	1	4.351	3.124	2.059
25794	Saturday, July 09, 2011	21:59	26.84	6.04	22.84	154.40	176.38	22.16	96.99%	98.37%	98.24%	96.64%	3	1	4.513	3.142	2.04
25793	Saturday, July 09, 2011	21:05	26.30	6.19	22.26	133.31	154.61	21.41	96.20%	99.17%	97.36%	96.56%	3	1	4.589	3.296	2.062
25792	Saturday, July 09, 2011	20:11	25.74	5.91	21.97	112.29	133.48	21.30	96.94%	98.00%	97.29%	95.34%	3	1	4.657	3.269	2.044
25791	Saturday, July 09, 2011	19:12	25.13	5.60	21.97	91.23	112.43	21.28	96.86%	98.21%	97.86%	96.11%	3	1	4.721	3.333	2.047
25790	Saturday, July 09, 2011	18:16	28.41	6.38	24.51	67.78	91.36	23.79	97.08%	99.29%	99.36%	98.65%	3	1	4.614	3.529	2.026
25789	Saturday, July 09, 2011	17:12	25.41	5.44	22.39	46.29	67.93	21.71	96.96%	98.46%	97.28%	95.79%	3	1	4.299	3.068	2.048
25788	Saturday, July 09, 2011	16:16	46.44	6.59	42.98	6.00	46.56	40.86	95.07%	97.81%	97.33%	95.20%	4	1	5.326	4.122	2.016
25787	Saturday, July 09, 2011	13:51	27.39	3.82	24.43	364.33	387.70	23.78	97.34%	97.79%	98.28%	96.11%	3	1	3.347	2.259	2.058
25786	Saturday, July 09, 2011	12:52	26.93	5.99	23.50	343.35	365.71	22.73	96.72%	98.22%	98.15%	96.40%	3	1	4.3	3.093	2.027
25785	Saturday, July 09, 2011	11:53	26.72	6.09	23.23	322.79	344.85	22.40	96.43%	99.21%	99.41%	98.62%	3	1	4.231	3.466	2.037
25784	Saturday, July 09, 2011	10:56	25.44	5.80	22.21	302.80	324.03	21.55	97.04%	98.78%	98.58%	97.37%	3	1	4.273	3.013	2.057
25783	Saturday, July 09, 2011	10:04	28.44	6.53	24.50	280.59	303.94	23.71	96.77%	97.03%	94.83%	97.73%	3	1	4.197	3.455	2.039
25782	Saturday, July 09, 2011	9:06	29.94	6.93	25.59	257.20	281.74	24.84	97.06%	98.96%	100.29%	99.25%	3	1	4.565	3.674	2.063

25782	Saturday, July 09, 2011	9:06	29.94	6.93	25.59	257.20	281.74	24.84	97.06%	98.96%	100.29%	99.25%	3	1	4.565	3.674	2.063
25781	Saturday, July 09, 2011	8:02	27.72	6.37	23.95	235.20	258.16	23.17	96.76%	98.13%	99.19%	97.33%	3	1	4.253	3.305	2.049
25780	Saturday, July 09, 2011	7:09	37.77	8.72	31.62	205.71	235.94	30.52	96.49%	98.94%	98.73%	97.68%	3	1	5.126	4.043	2.019
25779	Saturday, July 09, 2011	5:50	27.37	6.49	23.30	183.94	206.37	22.57	96.88%	99.13%	98.48%	97.62%	3	1	4.477	3.139	2.056
25778	Saturday, July 09, 2011	4:57	26.62	6.53	22.45	162.72	184.28	21.68	96.54%	98.78%	100.18%	98.96%	3	1	4.25	3.305	2.056
25777	Saturday, July 09, 2011	4:06	28.61	6.29	24.61	139.27	162.94	23.83	96.81%	98.32%	97.58%	95.94%	3	1	4.468	3.452	2.034
25776	Saturday, July 09, 2011	3:10	25.83	6.16	22.08	118.27	139.47	21.32	96.56%	97.98%	98.16%	96.18%	3	1	4.107	3.315	2.063
25775	Saturday, July 09, 2011	2:20	28.06	6.48	23.88	95.42	118.42	23.12	96.84%	99.20%	99.29%	98.49%	3	1	4.347	3.045	2.036
25774	Saturday, July 09, 2011	1:26	26.49	6.48	22.44	74.07	95.58	21.60	96.28%	99.75%	100.95%	100.71%	3	1	4.7	3.362	2.055
25773	Saturday, July 09, 2011	0:36	78.24	9.11	73.07	7.33	74.46	68.01	93.07%	96.92%	96.82%	93.84%	5	1	6.464	4.848	1.916
25772	Friday, July 08, 2011	21:27	30.04	17.80	12.24	390.34	402.12	11.78	96.18%	98.33%	99.46%	97.80%	1	1	5.505	4.457	1.978
25771	Friday, July 08, 2011	20:26	28.34	6.71	23.78	368.97	391.57	22.91	96.31%	98.73%	96.30%	95.08%	3	1	5.138	3.95	2.055
25770	Friday, July 08, 2011	19:41	30.39	10.04	20.70	357.57	369.83	12.27	59.25%	60.54%	59.61%	36.08%	2	1	4.937	4.119	1.965
25769	Friday, July 08, 2011	18:26	28.01	6.63	23.52	336.35	358.83	22.77	96.81%	97.42%	97.24%	94.72%	3	1	5.126	3.754	2.048
25768	Friday, July 08, 2011	17:23	28.12	6.78	23.87	314.55	337.39	23.16	96.01%	98.22%	99.03%	97.27%	3	1	4.696	3.832	2.046
25767	Friday, July 08, 2011	16:26	33.94	7.90	28.39	288.38	315.37	27.30	96.16%	98.59%	98.23%	96.85%	3	1	4.844	3.801	2.025
25766	Friday, July 08, 2011	14:55	26.67	6.57	22.69	267.59	289.40	22.04	97.13%	97.99%	97.81%	95.84%	3	1	4.592	3.506	2.053
25765	Friday, July 08, 2011	13:53	29.95	6.55	26.02	243.25	268.24	25.20	96.85%	98.88%	98.25%	97.15%	3	1	4.603	3.393	2.023
25764	Friday, July 08, 2011	11:39	29.64	7.52	24.76	220.65	244.32	23.88	96.46%	97.56%	96.42%	94.07%	3	1	4.907	3.63	2.034
25763	Friday, July 08, 2011	10:27	26.10	3.60	23.89	198.07	221.15	23.32	97.61%	97.07%	97.45%	94.59%	3	1	3.526	2.331	2.002
25762	Friday, July 08, 2011	9:25	26.45	5.78	23.15	176.15	198.43	22.44	96.95%	96.72%	96.51%	93.35%	3	1	4.512	3.208	2.048
25761	Friday, July 08, 2011	8:27	25.54	5.65	22.39	154.82	176.50	21.81	97.42%	98.07%	99.25%	97.33%	3	1	4.434	3.427	2.029
25760	Friday, July 08, 2011	7:30	26.02	5.86	22.68	133.23	155.10	22.03	97.17%	98.35%	96.19%	94.60%	3	1	4.647	3.389	2.078
25759	Friday, July 08, 2011	6:34	26.20	5.70	22.99	111.38	133.46	22.21	96.59%	98.47%	97.77%	96.27%	3	1	4.868	3.327	2.033
25758	Friday, July 08, 2011	5:34	29.11	6.23	25.34	87.28	111.58	24.43	96.40%	99.29%	98.19%	97.50%	3	1	5.06	3.757	2.028
25757	Friday, July 08, 2011	4:32	30.99	6.91	26.57	62.06	87.44	25.49	95.95%	98.20%	97.42%	95.67%	3	1	5.565	4.151	2.026
25756	Friday, July 08, 2011	3:26	26.63	6.18	22.99	40.18	62.27	22.23	96.72%	97.54%	97.37%	94.98%	3	1	5.23	3.586	2.059
25755	Friday, July 08, 2011	2:32	48.34	8.41	44.01	0.28	40.38	40.94	93.02%	96.51%	97.09%	93.70%	4	1	7.165	5.508	2.034
25754	Thursday, July 07, 2011	22:10	26.59	5.84	23.21	90.08	112.39	22.44	96.70%	98.67%	99.14%	97.83%	3	1	5.054	3.571	2.036
25753	Thursday, July 07, 2011	21:14	27.19	6.09	23.61	67.62	90.21	22.68	96.04%	97.73%	97.00%	94.79%	3	1	5.009	3.906	2.051
25752	Thursday, July 07, 2011	20:17	26.64	5.88	23.24	45.43	67.74	22.41	96.40%	97.41%	99.06%	96.50%	3	1	4.753	3.68	2.046
25751	Thursday, July 07, 2011	19:23	43.26	8.18	37.35	10.36	45.68	35.59	95.28%	97.56%	98.02%	95.63%	3	1	6.213	4.65	2.004
25750	Thursday, July 07, 2011	17:33	70.64	7.56	67.63	305.07	365.86	63.26	93.54%	96.28%	96.61%	93.02%	5	1	6.715	4.978	2.014
25749	Thursday, July 07, 2011	14:39	26.30	6.73	22.10	373.94	394.86	21.28	96.27%	98.47%	97.71%	96.22%	3	1	5.14	4.019	2.07
25748	Thursday, July 07, 2011	13:45	27.08	7.01	22.62	353.66	375.16	21.84	96.55%	97.66%	97.96%	95.67%	3	1	5.193	3.872	2.057
25747	Thursday, July 07, 2011	12:48	26.04	6.35	22.23	333.51	354.74	21.53	96.84%	99.01%	98.50%	97.53%	3	1	4.678	3.76	2.041
25746	Thursday, July 07, 2011	11:53	25.52	6.78	21.30	314.12	334.42	20.58	96.62%	96.98%	98.87%	95.88%	3	1	4.862	3.725	2.083
25745	Thursday, July 07, 2011	11:02	26.37	7.35	21.62	294.22	314.86	20.89	96.66%	97.61%	97.14%	94.82%	3	1	4.934	3.979	2.103
25744	Thursday, July 07, 2011	10:02	25.19	5.22	21.72	274.02	294.89	21.09	97.07%	98.93%	97.31%	96.27%	3	1	4.299	3.253	2.054
25743	Thursday, July 07, 2011	8:57	27.99	7.63	22.97	252.83	274.68	22.10	96.22%	97.70%	97.47%	95.23%	3	1	4.945	4.057	2.086